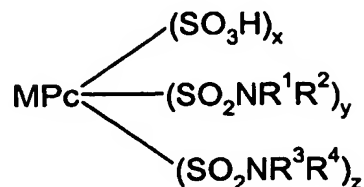


CLAIMS

1. A process for forming an image on a substrate comprising applying a composition which comprises:

(a) a compound of Formula (1) and salts thereof:

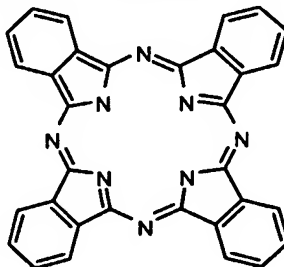


Formula (1)

wherein:

M is Cu or Ni;

Pc represents a phthalocyanine nucleus of Formula (2);



Formula (2)

R^1 , R^2 and R^3 independently are H or optionally substituted C_{1-4} alkyl;

R^4 is optionally substituted C_{1-4} -hydroxyalkyl;

x is greater than 0 and less than 1.8;

y and z are both greater than 0; and

the sum of (x+y+z) is 2.4 to 4.5: and

(b) a liquid medium:

thereto by means of an ink-jet printer.

2. A process according to claim 1 wherein in the compound of Formula (1) R^1 , R^2 and R^3 are all H.

3. A process according to either claim 1 or claim 2 wherein in the compound of Formula (1) R^4 is unsubstituted C_{1-4} -hydroxyalkyl.

4 A process according to any one of the preceding claims wherein in the compound of Formula (1) R^4 is C_2 -hydroxyalkyl.

5 5. A process according to any one of the preceding claims wherein in the compound of Formula (1) x is greater than 0 and less than 1.5.

6. A process according to any one of the preceding claims wherein in the compound of Formula (1) x is greater than 0 and less than 1.2.

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7. A process according to any one of the preceding claims wherein in the compound of Formula (1) x is greater than 0.05 and less than 1.0.

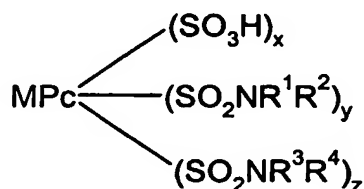
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8. A process according to any one of the preceding claims wherein in the compound of Formula (1) x is greater than 0.05 and less than 0.5.

9. A composition comprising:

(a) a compound of Formula (1) and salts thereof:

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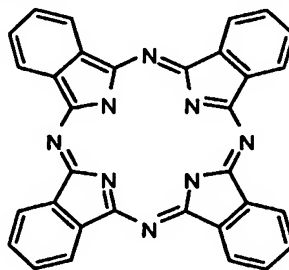


Formula (1)

wherein:

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M is Cu or Ni;
Pc represents a phthalocyanine nucleus of Formula (2);



Formula (2)

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R^1 , R^2 and R^3 independently are H or optionally substituted C_{1-4} alkyl;

R^4 is optionally substituted C_{1-4} -hydroxyalkyl;

x is greater than 0 and less than 1.8;

y and z are both greater than 0; and

the sum of $(x+y+z)$ is 2.4 to 4.5; and

(b) a liquid medium which comprises water and an organic solvent or an organic solvent free from water.

10. A composition according to claim 9 wherein in the compound of Formula (1) R^1 , R^2 and R^3 are all H.

11. A composition according to either claim 9 or claim 10 wherein in the compound of Formula (1) R^4 is unsubstituted C_{1-4} -hydroxyalkyl.

12. A composition according to claim 11 wherein in the compound of Formula (1) R^4 is C_2 -hydroxyalkyl.

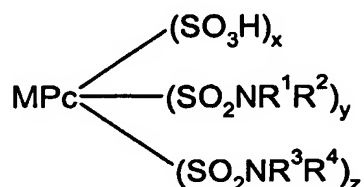
13. A composition according to any one of claims 9 to 12 wherein in the compound of Formula (1) x is greater than 0 and less than 1.5.

14. A composition according to claim 13 wherein in the compound of Formula (1) x is greater than 0 and less than 1.2.

15. A composition according to either claim 13 or claim 14 wherein in the compound of Formula (1) x is greater than 0.05 and less than 1.0.

16. A composition according to any one of claims 13 to 15 wherein in the compound of Formula (1) x is greater than 0.05 and less than 0.5.

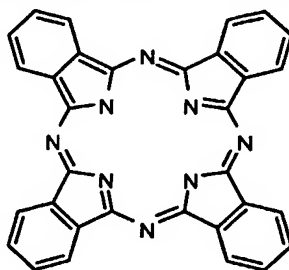
17. A compound of Formula (1) and salts thereof:



Formula (1)

wherein:

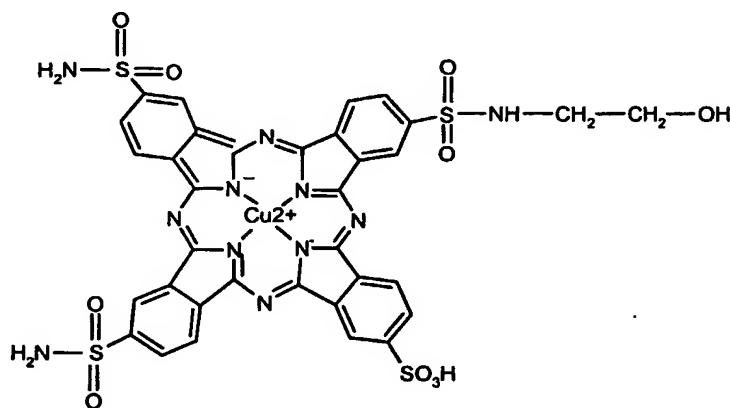
M is Cu or Ni;
 Pc represents a phthalocyanine nucleus of Formula (2);



Formula (2)

R^1 , R^2 and R^3 independently are H or optionally substituted C_{1-4} alkyl;
 R^4 is optionally substituted C_{1-4} -hydroxyalkyl;
 x is greater than 0 and less than 1.8;
 y and z are both greater than 0; and
 the sum of (x+y+z) is 2.4 to 4.5;

provided that the compound of Formula (1) is not of formula



18. A compound according to claim 17 wherein in the compound of Formula (1) R^1 , R^2 and R^3 are all H.

19. A compound according to either claim 17 or claim 18 wherein in the compound of Formula (1) R^4 is unsubstituted C_{1-4} -hydroxyalkyl.

20. A compound according to claim 19 wherein in the compound of Formula (1) R^4 is C_2 -hydroxyalkyl.

21. A compound according to any one of claims 17 to 20 wherein in the compound of Formula (1) x is greater than 0 and less than 1.5.
- 5 22. A compound according to claim 21 wherein in the compound of Formula (1) x is greater than 0 and less than 1.2.
23. A compound according to either claim 21 or claim 22 wherein in the compound of Formula (1) x is greater than 0.05 and less than 1.0.
- 10 24. A compound according to any one of claims 21 to 23 wherein in the compound of Formula (1) x is greater than 0.05 and less than 0.5.
- 15 25. A composition which comprises a compound of Formula (1) according to any one of claims 17 to 24 and a liquid medium.
26. A paper, plastic, textile, metal or glass material printed by means of a process according to any one of claims 1 to 8.
- 20 27. A paper, plastic, textile, metal or glass material printed with a composition according to any one of claims 9 to 16 or 25.
28. A paper, plastic, textile, metal or glass material printed with a compound according to any one of claims 17 to 24.
- 25 29. An ink-jet printer cartridge comprising a chamber and an ink wherein the ink is in the chamber and the ink is as defined in any one of claims 9 to 16 or 25.